

PATENT ABSTRACTS OF JAPAN

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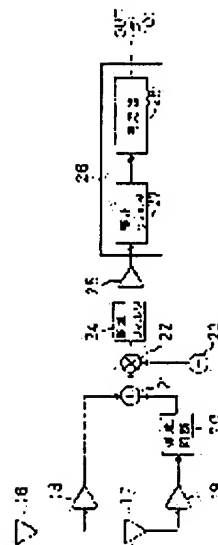
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(54) DIVERSITY RECEIVING DEVICE

(57)Abstract:

PURPOSE: To simplify a high frequency stage by synthesizing plural output signal after adding the different delay values to the output signals received from plural antennas.

CONSTITUTION: The signal received by a 1st antenna 16 is amplified by an amplifier 18. At the same time, the signal received by a 2nd antenna 17 is amplified by an amplifier 19 and then delayed by a delay circuit 20 by a time τ . Then the output signals of the amplifier 18 and the circuit 20 are synthesized by a synthesizing circuit 21. The synthetic wave, i.e., the output signal of the circuit 21 is multiplied by a mixer 22 as the output signal of a local oscillator 23. Thus the frequency of the synthetic wave is changed and amplified by an amplifier 25 after the limitation of band. Then the output intermediate frequency signal of the amplifier 25 is demodulated by a matching filter 27 or a demodulator 26 using the filter 27. Thus it is not required to provide double a 1F band/frequency converter, etc., and to simplify a radio circuit.



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